

# Surprise gift from Sanjay

## Problem Statement

Here is a surprise gift from Sanjay ,a string of length 'L'.Sanjay know Reethu likes "SUNNY" strings.A "SUNNY" string is nothing but a string which is "PALINDROME" and "PANGRAM" as well.Remember as Reethu is too young,she couldn't differentiate between upper-case and lower-case letters.So,treat both upper-case and lower-case as "lower-case"

Constraints:  $1 \leq L \leq 100000$ .

## Input Format

First line contains a string of both upper-case and lower-case letters

## Output Format

Output "YES" is string is "SUNNY" else "NO".

## Sample Input

abccba

## Sample Output

NO

## Explanation

as the input string is not a pangram,hence "NO".